D₀

wherein the intermediate track detector is connected to outputs of the header identification unit, of the track crossing detector and of the header sequence detector.

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15. (Twice Amended) Method for generating an intermediate track signal in an apparatus for writing data markings of an optical recording medium having data markings arranged along a track and header markings arranged laterally offset with

- 4 respect to the centre of the track, and an intermediate track being/arranged between
- 5 two adjacent tracks, comprising the steps of
- checking a signal derived from detector elements of the apparatus
 for the presence of signal components which are typical of header areas,
 - if the typical signal components are present, determining the order of signal components originating from differently arranged header markings,
- o a track crossing frequency,
- generating the intermediate track signal from the order information and the signal corresponding to the track crossing frequency.
- 1 16. (Twice Amended) Method according to Claim 15, further comprising the step of
- detecting the track crossing frequency, and, if A limit value is undershot, generating an
- invalidity signal, which is cancelled only when signal components which are typical of
- 4 header areas are present once again.